

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/015662

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/415 A61K31/42 A61P13/00 C07D231/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, BIOSIS, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 03/086287 A (UNIV OHIO STATE RES FOUND ; LIN HO-PI (US); SONG XUEQIN (US); CHEN CHI) 23 October 2003 (2003-10-23) paragraphs [0009], [0010]	1-13
P,X	EP 1 400 243 A (TANABE SEIYAKU CO) 24 March 2004 (2004-03-24) paragraphs [0001], [0009] table 2	1,3-6,14
X,P	VICKERSTAFFE, EMMA ET AL: "Fully Automated Polymer-Assisted Synthesis of 1,5-Biaryl Pyrazoles" JOURNAL OF COMBINATORIAL CHEMISTRY, 6(3), 332-339 CODEN: JCCHFF; ISSN: 1520-4766, 2004, XP008041537 the whole document	7-13
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

25 January 2005

Date of mailing of the international search report

- 3. 06. 2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/015662

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/42221 A (HAGEMAN MICHAEL J ; MIYAKE PATRICIA J (US); STEFANSKI KEVIN J (US); HE) 14 June 2001 (2001-06-14) page 20, paragraph 3 -----	1
X	US 6 440 963 B1 (TESTA RODOLFO ET AL) 27 August 2002 (2002-08-27) column 3, line 40 - column 4, line 40 -----	1,3-6,14
X	EP 0 554 829 A (FUJISAWA PHARMACEUTICAL CO) 11 August 1993 (1993-08-11) page 1, paragraph 1 -----	1-7,12, 13
X	ZHU, JIUXIANG ET AL: "Using Cyclooxygenase-2 Inhibitors as Molecular Platforms to Develop a New Class of Apoptosis-Inducing Agents" JOURNAL OF THE NATIONAL CANCER INSTITUTE , 94(23), 1745-1757 CODEN: JNCIEQ; ISSN: 0027-8874, 2002, XP008041497 the whole document -----	1-14
X	BOOTH, R. JOHN ET AL: "Polymer-Supported Quenching Reagents for Parallel Purification" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY , 119(21), 4882-4886 CODEN: JACSAT; ISSN: 0002-7863, 1997, XP002102299 the whole document -----	7-11
A	WO 02/18350 A (IKEDA SHOTA ; FUKUMOTO SHOJI (JP); TAKEDA CHEMICAL INDUSTRIES LTD (JP)) 7 March 2002 (2002-03-07) -----	1,6
A	-----	7,12,13
X	WO 99/32454 A (DU PONT PHARM CO) 1 July 1999 (1999-07-01) the whole document -----	7
P,X	PRUITT J R ET AL: "Discovery of 1-(2-Aminomethylphenyl)-3-trifluoromethyl-N-[3-fluoro-2'-(aminosulfonyl)[1,1'-biphenyl]]-4-yl]-1H-pyrazole-5-carboxamide (DPC602), a Potent, Selective, and Orally Bioavailable Factor Xa Inhibitor" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 46, no. 25, 4 December 2003 (2003-12-04), pages 5298-5315, XP002302832 ISSN: 0022-2623 the whole document -----	7

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/015662

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14 (partially)

1. A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 disubstituted pyrazole, where ring A is a benzene, B is benzene, heterocyclic, cycloalkane or cycloalkene.

2. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 di substituted pyrazole, where ring A is a thiophene, B is benzene, heterocyclic, cycloalkane or cycloalkene.

3. claims: 1-14(partially)

A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 di substituted pyrazole, where ring A is a pyridine, B is benzene, heterocyclic, cycloalkane or cycloalkene.

4. claims: 1-14(partially)

A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 di substituted pyrazole, where ring A is a pyrazole, B is benzene, heterocyclic, cycloalkane or cycloalkene.

5. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compound of formula (Ia), where the ring Q is a 2,3 disubstituted pyrazole;

6. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compound of formula (Ia), where the ring Q is a 3,4 disubstituted oxazole;

7. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compound of formula (Ia), where the ring Q is a 4,3 disubstituted oxazole.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/015662

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03086287	A	23-10-2003	AU 2003230836 A1	27-10-2003
			CA 2485679 A1	23-10-2003
			EP 1499597 A2	26-01-2005
			WO 03086287 A2	23-10-2003
			US 2003236294 A1	25-12-2003
EP 1400243	A	24-03-2004	EP 1400243 A1	24-03-2004
			JP 2005053888 A	03-03-2005
			US 2005075359 A1	07-04-2005
WO 0142221	A	14-06-2001	AT 283048 T	15-12-2004
			AT 288897 T	15-02-2005
			AU 1805901 A	18-06-2001
			AU 1930301 A	18-06-2001
			AU 777402 B2	14-10-2004
			AU 1931001 A	18-06-2001
			AU 1931101 A	18-06-2001
			AU 2041201 A	18-06-2001
			AU 750978 B2	01-08-2002
			AU 2057101 A	18-06-2001
			AU 2005200015 A1	03-02-2005
			BG 105808 A	30-09-2002
			BG 105873 A	30-04-2002
			BR 0008058 A	26-03-2002
			BR 0008059 A	26-03-2002
			BR 0008060 A	05-02-2002
			BR 0008088 A	09-04-2002
			CA 2362673 A1	14-06-2001
			CA 2362675 A1	14-06-2001
			CA 2362815 A1	14-06-2001
			CA 2362816 A1	14-06-2001
			CN 1376146 A	23-10-2002
			CN 1379669 A	13-11-2002
			CN 1411447 A	16-04-2003
			CZ 20012875 A3	13-02-2002
			CZ 20013162 A3	12-06-2002
			CZ 20013163 A3	12-06-2002
			CZ 20013210 A3	13-03-2002
			DE 60016191 D1	30-12-2004
			DE 60018040 D1	17-03-2005
			DK 1150960 T3	02-05-2005
			EA 3639 B1	28-08-2003
			EA 3612 B1	26-06-2003
			EA 3464 B1	26-06-2003
			EE 200100414 A	16-12-2002
			EE 200100419 A	16-12-2002
			EP 1175214 A2	30-01-2002
			EP 1165072 A2	02-01-2002
			EP 1150959 A1	07-11-2001
			EP 1150960 A1	07-11-2001
			EP 1525883 A1	27-04-2005
			EP 1528058 A1	04-05-2005
			HR 20010582 A1	31-08-2002
			HR 20010589 A1	31-08-2002
			HU 0200409 A2	29-06-2002
			HU 0200580 A2	28-11-2002
			HU 0201450 A2	28-12-2002
			HU 0201463 A2	28-05-2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/015662

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6440963	B1	27-08-2002	IT	MI20010733 A1	07-10-2002
			BR	0208694 A	30-03-2004
			CA	2443031 A1	17-10-2002
			WO	02080927 A1	17-10-2002
			EP	1381369 A1	21-01-2004
			HU	0303908 A2	28-04-2004
			JP	2004531514 T	14-10-2004
			NO	20034473 A	05-12-2003
			PL	364465 A1	13-12-2004
			US	2004134387 A1	15-07-2004
			ZA	200307731 A	13-09-2004

EP 0554829	A	11-08-1993	AT	217613 T	15-06-2002
			AU	663149 B2	28-09-1995
			AU	3217493 A	12-08-1993
			CA	2088835 A1	06-08-1993
			CN	1075959 A ,C	08-09-1993
			DE	69331920 D1	20-06-2002
			DE	69331920 T2	26-09-2002
			EP	0554829 A2	11-08-1993
			ES	2173875 T3	01-11-2002
			HU	63392 A2	30-08-1993
			HU	9500347 A3	28-09-1995
			IL	104311 A	13-07-1997
			JP	5246997 A	24-09-1993
			KR	252151 B1	01-09-2000
			MX	9300579 A1	30-09-1993
			PH	30916 A	23-12-1997
			RU	2128172 C1	27-03-1999
			US	5550147 A	27-08-1996
			US	5670533 A	23-09-1997
			ZA	9300077 A	04-08-1993

WO 0218350	A	07-03-2002	AU	8252001 A	13-03-2002
			WO	0218350 A1	07-03-2002
			JP	2002145778 A	22-05-2002

WO 9932454	A	01-07-1999	AU	1724499 A	12-07-1999
			BR	9813835 A	10-10-2000
			CA	2314401 A1	01-07-1999
			EP	1042299 A1	11-10-2000
			JP	2001526268 T	18-12-2001
			WO	9932454 A1	01-07-1999
			ZA	9811517 A	15-06-2000
			US	6271237 B1	07-08-2001
			US	2002016326 A1	07-02-2002
